

FIG. 1

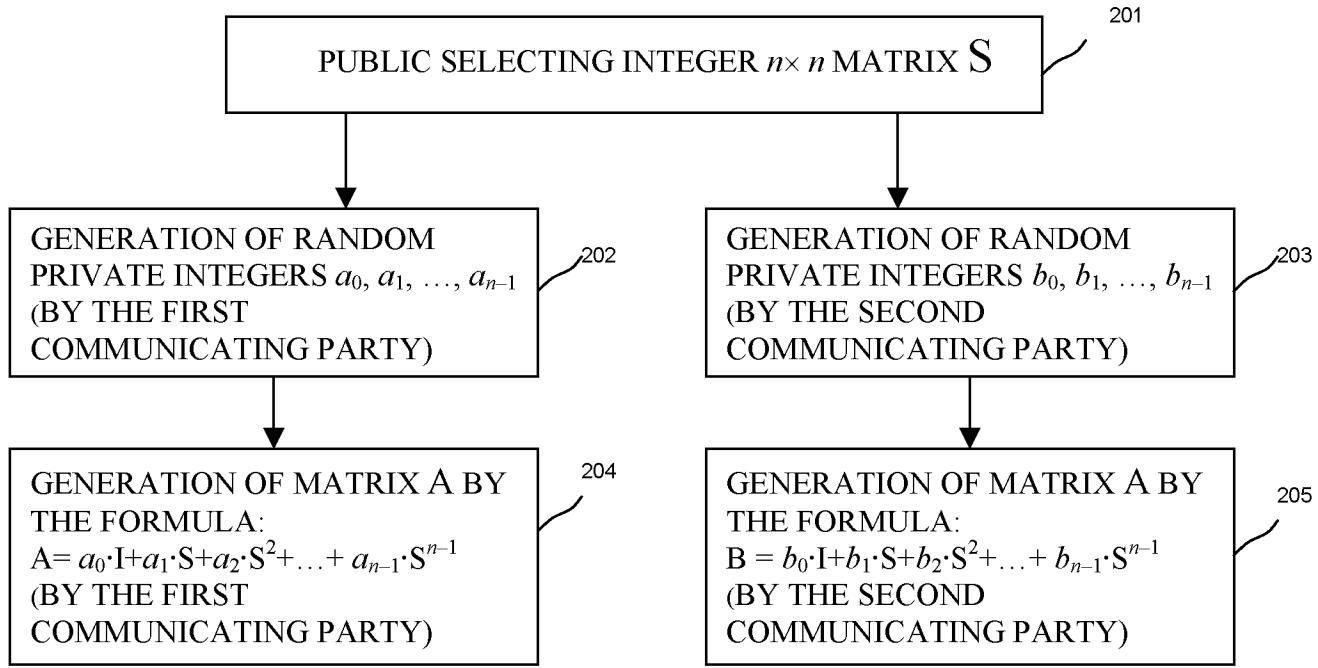


FIG. 2. COMMUTING $n \times n$ MATRICES GENERATOR

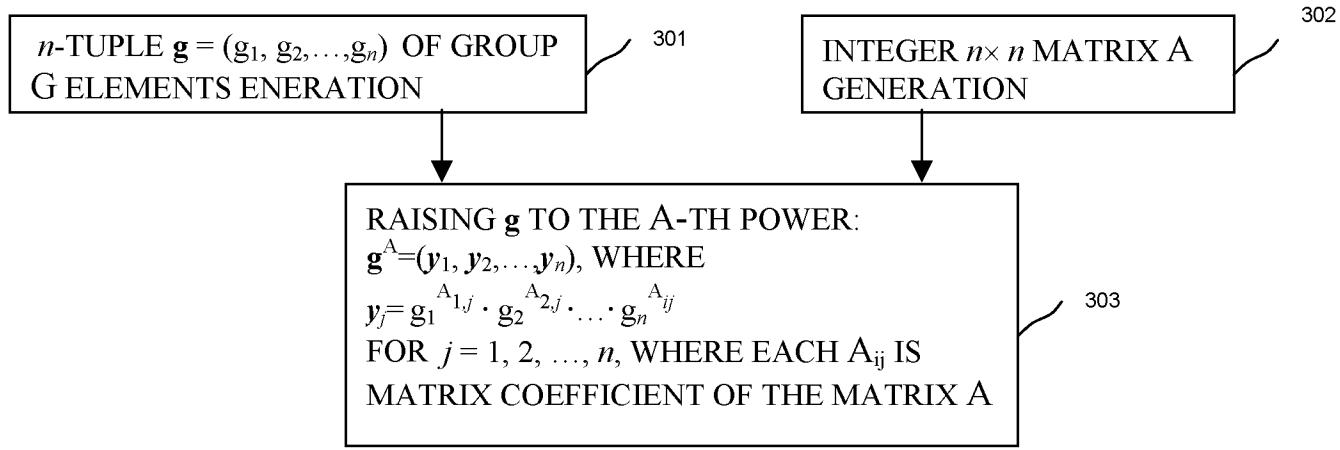


FIG. 3. TUPLE-MATRIX EXPONENTIATOR

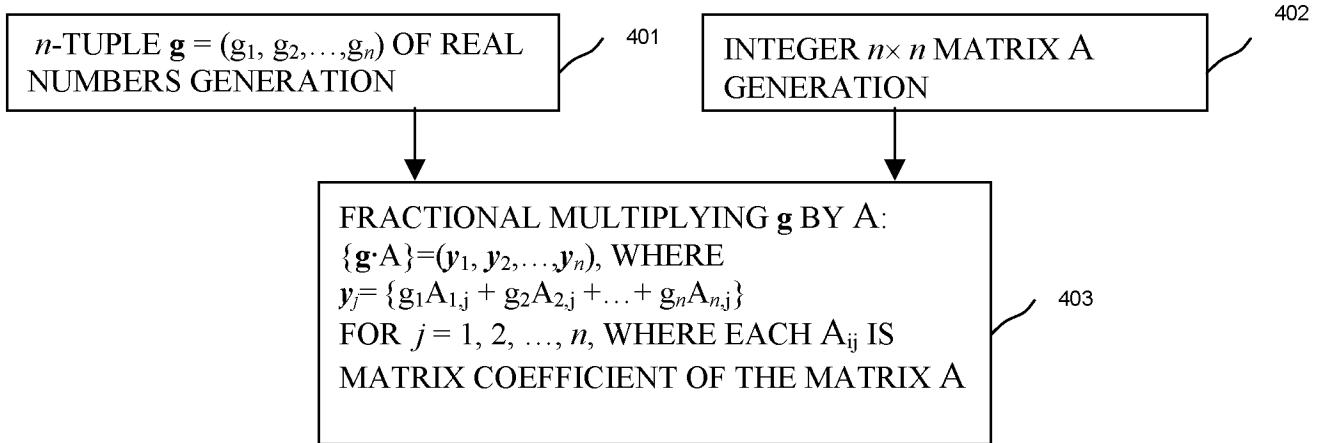


FIG. 4. TUPLE-MATRIX FRACTIONAL MULTIPLIER

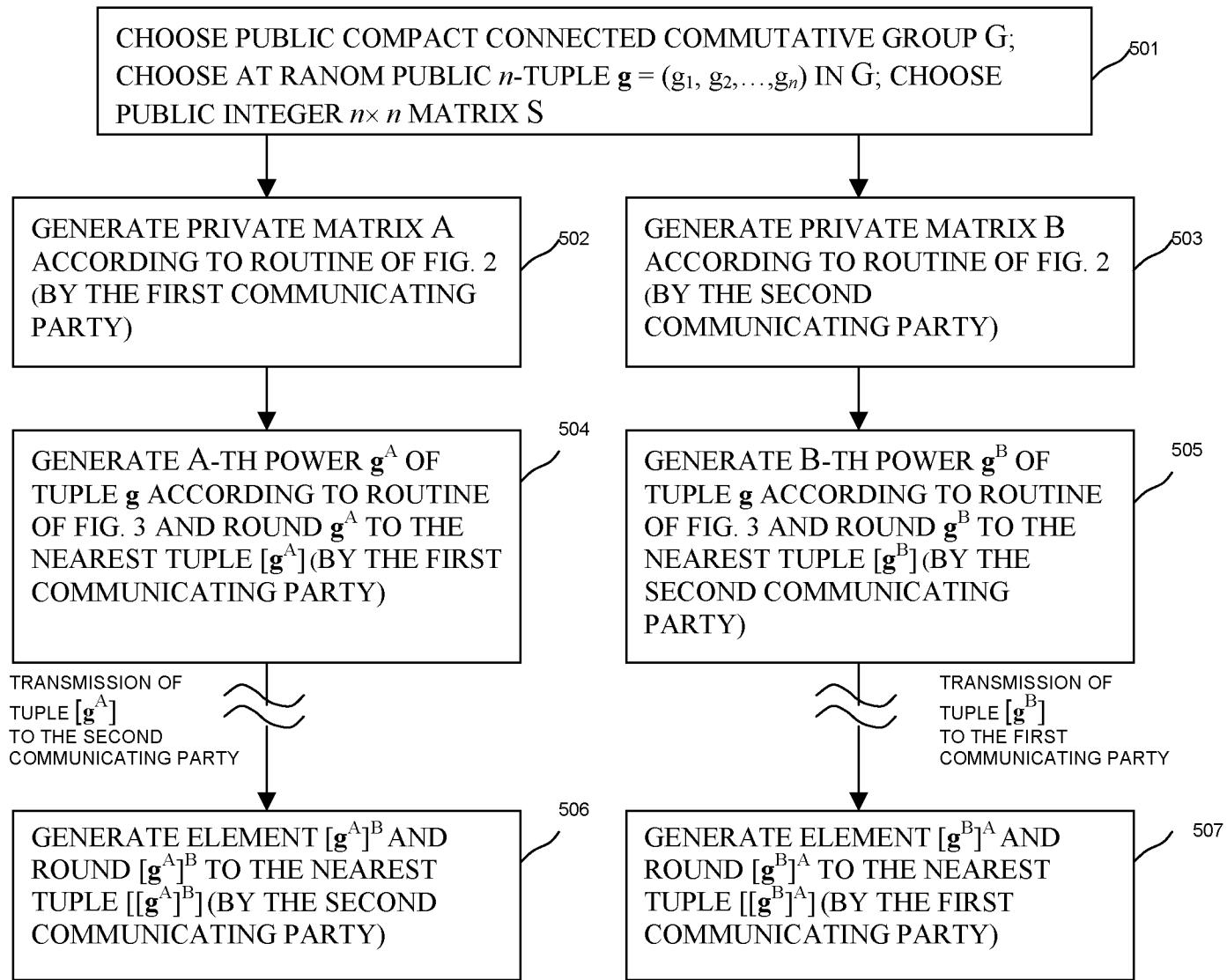


FIG. 5. n -DIMENSIONAL KEY GENERATOR

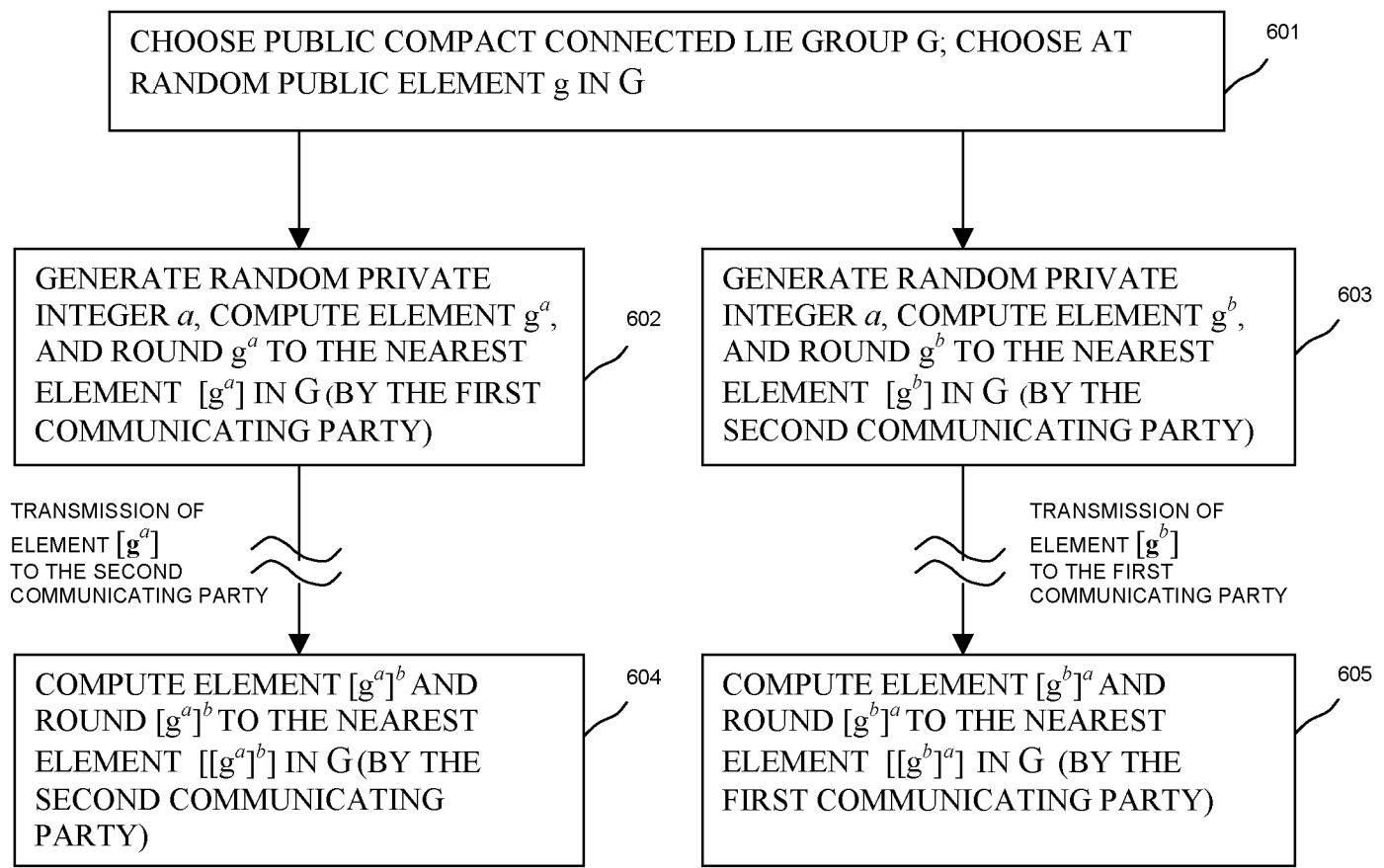


FIG. 6. ONE-DIMENSIONAL KEY GENERATOR

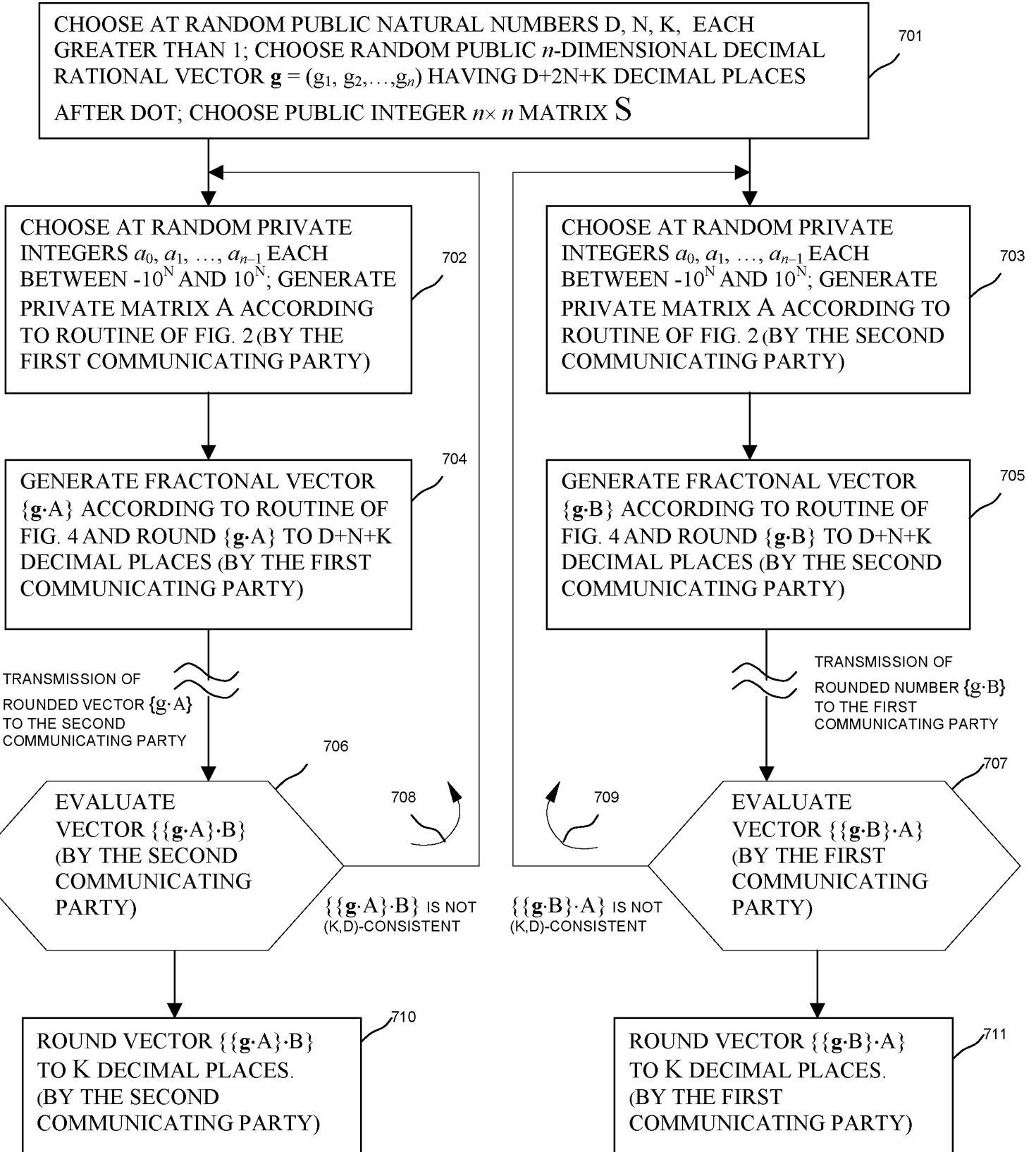


FIG. 7. n -DIMENSIONAL FRACTIONAL KEY GENERATOR

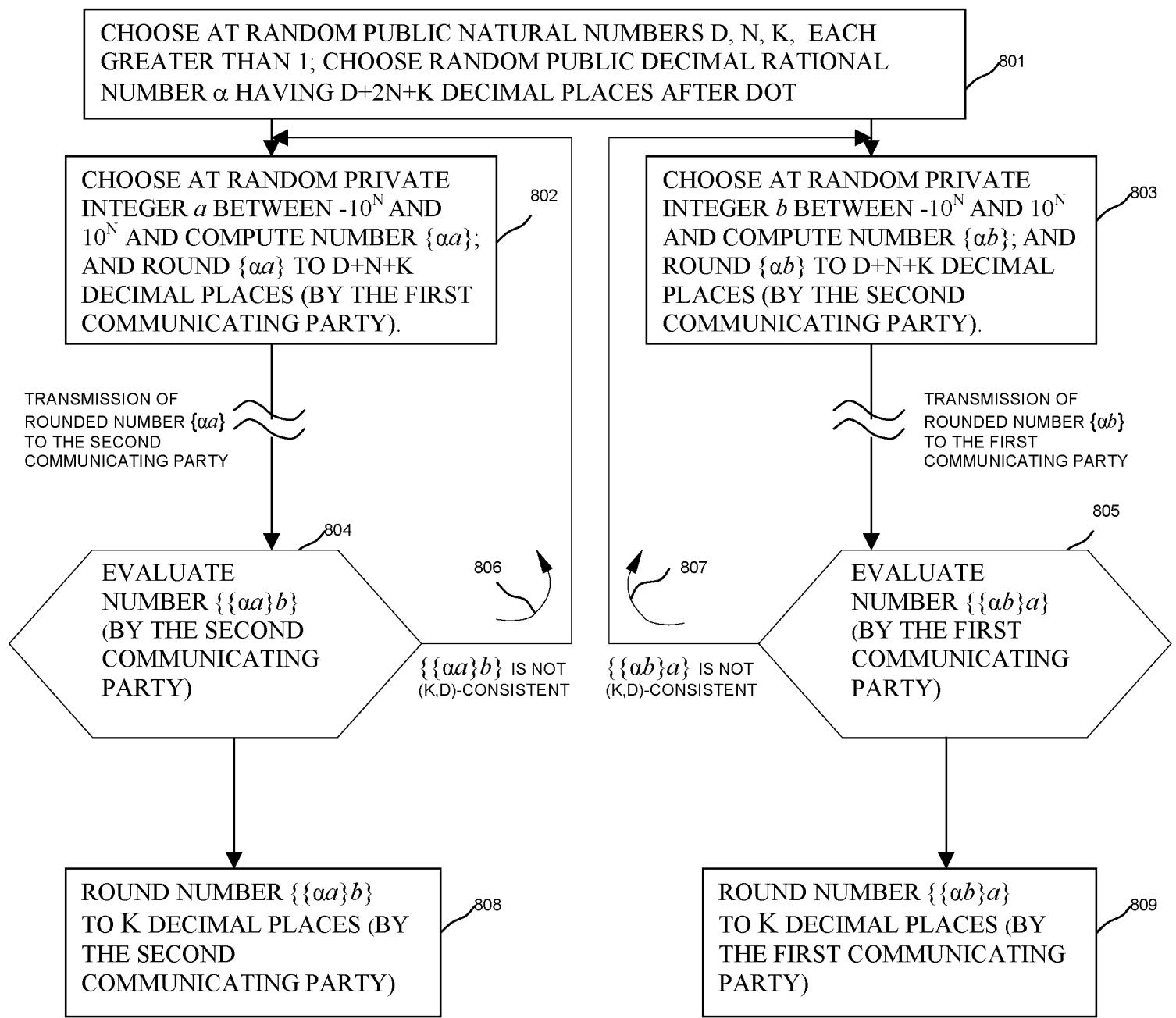


FIG. 8. ONE-DIMENSIONAL FRACTIONAL KEY GENERATOR